

Message Text

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ACTION OES-07

INFO OCT-01 EUR-12 EA-07 ISO-00 SS-15 PM-04 ACDA-07
CIAE-00 INR-07 IO-13 L-03 NSAE-00 NSC-05 EB-07
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O R 021854Z JUN 77
FM AMEMBASSY PARIS
TO SECSTATE WASHDC IMMEDIATE 3506
INFO AMEMBASSY BRUSSELS
AMEMBASSY BONN
AMEMBASSY LONDON
AMEMBASSY OTTAWA
AMEMBASSY ROME
AMEMBASSY TOKYO

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USEEC

E.O. 11652: N/A
TAGS: TECH, MNUC, PARM, FR, US
SUBJECT: JUNE 8-9 SUMMIT NON-PROLIFERATION EXPERTS
MEETING

REF: STATE 123551

1. FRENCH MFA (NAZELLE) PROVIDED EMBASSY FRENCH
WORKING PAPER (SEE PARA 2), AGENDA (PARA 3) AND NOTES
(SEE PARA 4) ON THE SUBJECT MEETING. THESE PAPERS
WERE DISTRIBUTED BY THE MFA ON MAY 31 AND JUNE 1 TO
EMBASSIES IN PARIS OF COUNTRIES ATTENDING THE SUBJECT
MEETING AND REPRESENT THE FORMAL FRENCH INVITATION TO
THE MEETING. THE FRENCH WORKING PAPER WILL BE A
FRENCH DELEGATION SUBMISSION TO THE SUBJECT MEETING.
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THE US PAPER ON INFCEP (3RD EDITION) WILL BE A US
CONTRIBUTION TO THE MEETING. WE WILL MAKE SUFFICIENT
COPIES FOR THE MFA TO DISTRIBUTE TO THE PARTICIPANTS.

2. UNOFFICIAL TRANSLATION OF WORKING PAPER DATED
MAY 31, 1977.

IT WAS DECIDED, DURING THE LONDON SUMMIT, TO CREATE
A WORKING GROUP, COMPOSED OF NUCLEAR EXPERTS FROM THE

SEVEN COUNTRIES, IN ORDER NAMELY TO STUDY THE "TERMS OF REFERENCE FOR AN INTERNATIONAL NUCLEAR FUEL CYCLE EVALUATION." THE PURPOSE OF SUCH A PROGRAM WOULD BE TO ENHANCE INTERNATIONAL COOPERATION IN THE FIELD OF PROMOTING THE DEVELOPMENT OF NUCLEAR ENERGY FOR PEACEFUL USES, AND IN PARTICULAR EXPLORE THE BEST WAYS TO REDUCE FUTURE PROLIFERATION RISKS WHILE MEETING WORLD ENERGY NEEDS WITH THE VARIOUS EXISTING OR POSSIBLE NUCLEAR FUEL CYCLES.

IN CASE THE PROCEEDINGS OF THIS GROUP WOULD LEAD TO ENDORSE THE IDEA THAT SUCH A STUDY SHOULD BE LAUNCHED, THE PURPOSE OF THE PRESENT DOCUMENT IS TO SUGGEST WHAT ITS TERMS OF REFERENCE COULD BE.

COUNTRIES WHICH MAY PARTICIPATE IN SUCH A PROGRAM HAVE DEVELOPED DIFFERENT NUCLEAR TECHNIQUES AND FUEL CYCLES AND HAVE ADOPTED DIFFERENT FUEL CYCLE STRATEGIES, ACCORDING TO THEIR INDUSTRIAL OPTIONS, AND TO THEIR ENERGETICAL DOMESTIC SITUATION AND RESOURCES. IT SHOULD BE THEIR COMMON INTENT, PENDING THE COMPLETION OF SUCH A PROGRAM, TO RESPECT EACH OTHER'S CHOICES AND DECISIONS IN THIS FIELD AND TO REFRAIN FROM INTERVENING IN EACH OTHER'S FUEL CYCLE STRATEGIES WHEN THESE INVOLVE TO USE (SIC) OF LEGITIMATELY ACQUIRED FUELS, PROVIDED THAT THE AGREED SAFEGUARDS ARE IMPLEMENTED.

I. TECHNICAL SCOPE

1) FUEL AVAILABILITY

A) URANIUM AVAILABILITY

- INCENTIVES FOR EXPLORATION AND PRODUCTION;

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- COORDINATED EXPLORATION PROGRAMS;
- FREE-MARKETING OR GUARANTEES OF SALES FOR COMPANIES INVESTING IN EXPLORATION AND PRODUCTION;
- FREE-MARKETING OR GUARANTEES OF SUPPLY FOR UTILITIES.

B) THORIUM AVAILABILITY

C) ENRICHMENT AVAILABILITY

- JOINT PLANNING OF FUTURE CAPACITIES;

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FM AMEMBASSY PARIS

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INFO AMEMBASSY BRUSSELS

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- OPPORTUNITIES FOR CROSS-INVESTMENT;
 - FREEDOM OF CHOICE FOR CUSTOMERS IN AN OPEN MARKET;
 - PRODUCTION, UTILIZATION, AND SAFEGUARDS OF HIGHLY ENRICHED URANIUM;
 - COMPARISON OF THE PROLIFERATION RISKS OF THE VARIOUS ENRICHMENT TECHNIQUES.
- D) ASSURANCES FOR LONG TERM SUPPLY
- GUARANTEES OF NON RETROACTIVITY OF CHANGES IN NATIONAL EXPORT RULES ON THE IMPLEMENTATION OF LONG TERM CONTRACTS;
 - INCENTIVES FOR THE SIGNATURE OF LONG TERM COMMERCIAL CONTRACTS BETWEEN PRODUCERS AND CONSUMERS OF COUNTRIES MEETING NONPROLIFERATION CONSTRAINTS;

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- INTERNATIONAL MECHANISMS GUARANTEEING SUPPLIES TO COUNTRIES MEETING NONPROLIFERATION CONSTRAINTS IN CASE OF UNEXPECTED CUTTING OFF OF SUPPLIES.

2. ORGANIZATION OF THE PLUTONIUM CYCLE IN ORDER TO MINIMIZE PROLIFERATION RISKS.

A) REPROCESSING

- STUDY OF THE ECONOMIC AND ENERGETICAL ASPECTS OF REPROCESSING ON A FULL INDUSTRIAL SCALE;
- IMPROVEMENT OF SAFEGUARDS TECHNIQUES, NAMELY CONTAINMENT AND SURVEILLANCE;
- REGIONAL FUEL CYCLE CENTERS;
- CO-PROCESSING, SPIKING, OR DELIVERY OF PLUTONIUM IN THE FORM OF MIXED OXIDE OR EVEN FUEL ELEMENTS, POSSIBLY PREIRRADIATED.

B) SEPARATED PLUTONIUM

- RESTRICTIONS ON THE USE OF PLUTONIUM WITH LOW PERCENTAGE OF PU 240;
- STORAGE OF SEPARATED PLUTONIUM BY THE IAEA.

C) FAST BREEDERS

- STUDY OF THE ECONOMIC AND ENERGETICAL ASPECTS OF THE CONCEPT ON AN INDUSTRIAL SCALE;
- FAST BREEDER REPROCESSING; SAFEGUARDS PROBLEMS (CONTAINMENT, SURVEILLANCE, CO-LOCATION, TRANSPORTS);

3. LIKELY IMPLICATIONS OF A POSSIBLE TEMPORARY POSTPONEMENT OF REPROCESSING.

A) STORAGE STRATEGIES AND COSTS NAMELY LIKELY DURATION OF DELAYING;

- FOR LIGHT WATER REACTORS;
- FOR HEAVY WATER REACTORS.

B) TECHNICAL PROBLEMS

- WAYS OF INCREASING SPENT FUEL STORAGE;
- SITING AND TRANSPORTATION PROBLEMS;
- MORE EFFICIENT UTILIZATION OF EXISTING

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SPENT FUEL CAPACITY;

- FUEL INTEGRITY PROBLEMS AND ASSOCIATED RISKS.

4. POSSIBILITIES OF ELIMINATING REPROCESSING AND USE OF PLUTONIUM WHILE DEVELOPING LWR AND HWR.

A) METHODS TO INCREASE ONCE-THROUGH URANIUM UTILIZATION

- OPTIMIZED FUEL AND LOADING DESIGNS;
- TANDEMS CYCLE;
- SPECTRAL SHIFT.

B) ENERGETICAL BALANCE-SHEET OF ONCE-THROUGH UTILIZATION

- FOR LIGHT WATER REACTORS;
- FOR HEAVY WATER REACTORS.

C) PERMANENT REPOSITORIES

- PROTECTIONS AGAINST POSSIBLE DISSEMINATION OF FISSION PRODUCTS;
- SITING PROBLEMS;

- POSSIBILITIES OR RISKS OF FURTHER RECOVERY.

5. OTHER FUEL CYCLES

A) RESEARCH REACTORS: USE OF HIGHLY ENRICHED
URANIUM AND POSSIBLE ALTERNATIVES.

B) THORIUM- U 233 CYCLE

C) LIGHT WATER AND THORIUM BREEDER CONCEPTS

D) OTHER ADVANCED REACTOR CONCEPTS

WITH, WHEN RELEVANT, IN EACH CASE, IDENTIFICATION OF THE
FUEL CYCLE STAGES AT WHICH NUCLEAR WEAPON'S GRADE
MATERIAL MAY BE SEPARATED, AND THE POSSIBLE MEANS
OF MINIMIZING PROLIFERATION RISKS AT THESE STAGES.

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II. INTERNATIONAL ORGANIZATION

IF SUCH A PROGRAM WAS TO BE DECIDED, IT IS SUGGESTED
THAT ONE INTERNATIONAL WORKING GROUP BE CREATED FOR
EACH OF THE AFOREMENTIONED CHAPTERS, COMPOSED OF REPRESENTATIVES OF THE MAIN COUNTRIES CONCERNED. ONE OF
THESE COUNTRIES SHOULD BE DESIGNATED TO PROVIDE A

CHAIRMAN, AND ANOTHER TO PROVIDE A SECRETARY SUPPORTED
BY A COMPETENT NATIONAL ORGANIZATION.

IT WOULD BE UP TO EACH GROUP TO DECIDE WHETHER
OR NOT SUB-GROUPS, WHICH WOULD REPORT TO THE GROUP,
SHOULD BE CREATED.

THERE WOULD BE NON COMMON FUNDING OF THE
STUDIES, EACH PARTICIPATING COUNTRY, INCLUDING THOSE
PROVIDING THE CHAIRMAN OR SECRETARIAT, BEING RESPONSIBLE
FOR ITS OWN EXPENSES.

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EACH GROUP OR SUB-GROUP WOULD DISTRIBUTE ITS WORK
AMONGST ITS MEMBERS. COOPERATIVE STUDIES BETWEEN
NATIONAL ORGANIZATIONS OR INDUSTRIES OF PARTICIPATING
COUNTRIES WOULD BE ORGANIZED TO THE EXTENT POSSIBLE.
ANY CONTRIBUTION BY A PARTICIPATING COUNTRY WOULD BE
WELCOME.

IN ORDER TO ENABLE THE VARIOUS GROUPS TO GATHER
THE MOST COMPLETE AND REALISTIC INFORMATION IN THEIR
RESPECTIVE FIELD, ALL PARTICIPANTS WOULD DO THEIR BEST
TO FACILITATE THE DEVELOPMENT OF THE SCIENTIFIC OR
INDUSTRIAL PROGRAMS OF THE OTHER PARTICIPANTS.

THE VARIOUS GROUPS SHOULD COMPLETE THEIR RESPEC-
TIVE STUDIES WITHIN A PERIOD OF TWO YEARS AND MAKE
REPORT TO A CONFERENCE OF THE PARTICIPATING COUNTRIES.
THESE REPORTS WOULD EXPRESS, AS FAR AS POSSIBLE, A
UNANIMOUS POSITION, BUT EACH PARTICIPANT WOULD BE
ENTITLED TO INCLUDE A DISSENTING OPINION IF IT SO
WISHED.

IF IT SHOULD BE CONSIDERED APPROPRIATE BY ANY
PARTICIPATING COUNTRY, A STEERING COMMITTEE COMPOSED
OF ONE REPRESENTATIVE OF EACH COUNTRY, AND OF THE
CHAIRMEN AND SECRETARIES OF THE GROUPS, MIGHT BE
CONVENED FROM TIME TO TIME TO COORDINATE THE WORK OF
THE VARIOUS GROUPS.

A LOOSE LINK BETWEEN THE VARIOUS SECRETARIATS AND
THE IAEA SHOULD BE ASSURED (SIMILAR TO THE ONE BETWEEN
THE COMMON ENTERPRISES OF THE OECD AND THIS ORGANIZA-
TION) AND ONE COULD EVEN CONCEIVE THAT THE STEERING
COMMITTEE WOULD MEET IN VIENNA, AND BE OPEN-ENDED,
ALLOWING THE FEW OTHER INTERESTED IAEA COUNTRIES TO
PARTICIPATE.

3. AGENDA.

1. APPROVAL OF AGENDA
2. IN RESPONSE TO THE DECISIONS OF THE SUMMIT
ON NUCLEAR MATTERS

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- A) EXAMINATION OF THE BEST MEANS OF HARMONIZING
THE DEVELOPMENT OF NUCLEAR ENERGY AND NONPRO-
LIFERATION
 - B) STUDY OF THE TERMS OF REFERENCE OF AN
INTERNATIONAL FUEL CYCLE EVALUATION
 - 3. OUTLINE OF THE CONCLUSIONS OF THE GROUP OF
EXPERTS
 - 4. DATE AND PLACE OF THE NEXT EVENTUAL MEETING
 - 5. OTHER ITEMS
4. NOTES ON THE MEETING.
- 1. THE MEETING WILL TAKE PLACE AT THE INTERNATIONAL
CONFERENCE CENTER: 19, AVENUE KLEBER, PARIS,
16TH, TELE: 502-1423 (SWITCHBOARD AT THE MINISTRY
OF FOREIGN AFFAIRS, RUE LA PEROUSE)
 - 2. THE MEETING WILL BEGIN JUNE 8 AT 0930.
 - 3. THE FRENCH DELEGATION IS GIVING A LUNCH JUNE 8
AT 1315 AT THE CONFERENCE CENTER RESTAURANT.
 - 4. SIMULTANEOUS FRENCH AND ENGLISH TRANSLATION WILL
BE PROVIDED.
 - 5. SECRETARIAL SERVICES FOR BOTH LANGUAGES WILL BE
AVAILABLE.

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Message Attributes

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